

MILITARY SPECIFICATION

**ADAPTER, CONNECTOR, COAXIAL,
RADIOFREQUENCY, BETWEEN SERIES,
TYPE UG-586B/U**

This specification has been approved by the Department of Defense and is mandatory for use by the Departments of the Army, the Navy, and the Air Force

1. SCOPE

1.1 This specification covers the detail requirements for type UG-586B/U, between series (series LC to series LT), radiofrequency, coaxial connector adapter

2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issue in effect on date of invitation for bids, form a part of this specification to the extent specified herein

SPECIFICATION**MILITARY**

MIL-A-27434 — Adapters, Connector, Coaxial, Radiofrequency, Between Series, General Specification for

DRAWINGS**BUREAU OF SHIPS**

REA10002 — Bushing
REB10008 — Contact
REB10076 — Body
REB101200 — Insulator
REB101201 — Insulator

(Copies of specifications and drawings required by contractors in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer)

3. REQUIREMENTS

3.1 Requirements. Requirements shall be in accordance with Specification MIL-A-27434, and as specified herein

3.2 Design and construction. The connector adapter shall be of the design, construction, and physical dimensions specified on figure 1

3.2.1 Gage tests for contacts The contact shall meet the gage tests for contacts specified in 4 2 to 4 2 1, inclusive

4. QUALITY ASSURANCE PROVISIONS

4.1 Sampling and inspection. Sampling and inspection shall be in accordance with Specification MIL-A-27434, and as specified herein

4.1.1 Group B inspection Group B inspection shall be in accordance with Specification MIL-A-27434. Mating dimensions shall be as specified in figure 2

4.2 Gage tests for contacts (applicable only to series LT termination) (see 3.2.1). The

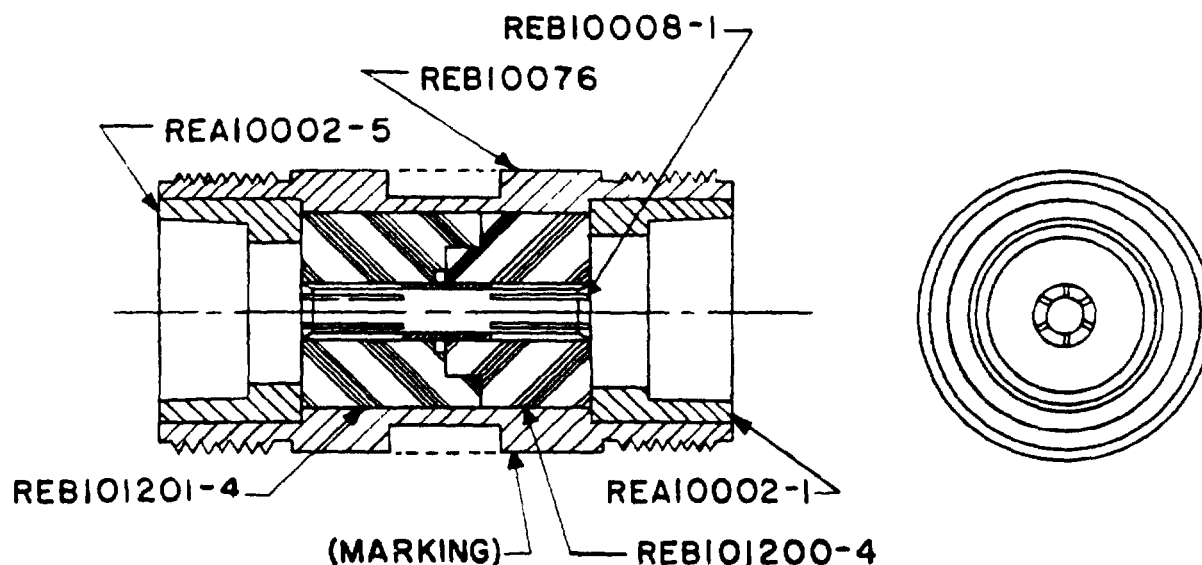
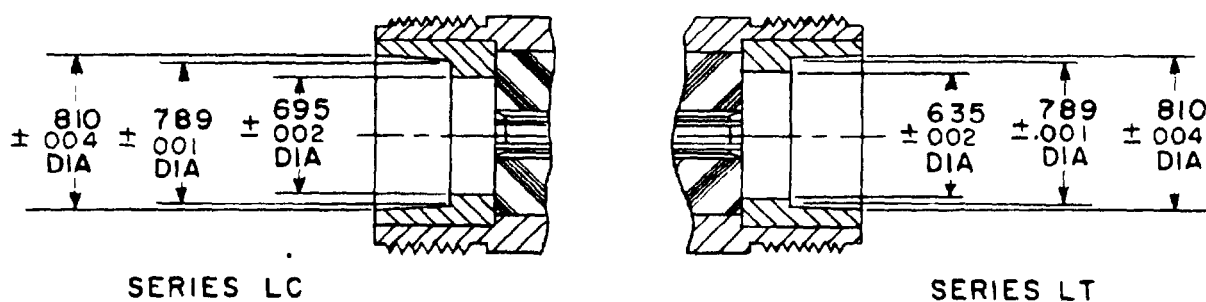


FIGURE 1 Type UG-586/U connector adapter



All dimensions in inches

FIGURE 2 Dimensional requirements for group B inspection

center contact shall be subjected to the gage tests specified in 4.2.1 prior to assembly into the connector adapter. The pins used in the performance of these tests may be tapered at their ends to facilitate insertion but the tapered portions shall not be included in the specified dimensions. All tests shall be performed in the order shown.

4.2.1 After insertion and removal of a pin 0.200 inch minimum in diameter to a depth of 0.187 inch minimum, all contact members shall make contact within 0.031 inch of their tip ends with a pin 0.176 inch diameter inserted to a depth of 0.187 inch minimum. The contact shall then be tested as follows:

- (a) A pin 0.168 inch minimum in diameter inserted to a depth of 0.187 inch minimum shall not deflect the contact members
- (b) When a pin 0.196 inch minimum in diameter is inserted to a depth of 0.187 inch minimum, all contact members shall make contact with said pin 0.031 inch maximum from their tip ends. The contact shall then pass through a cylindrical hole 0.230 inch maximum in diameter and 0.500 inch long when a pressure of not more than 2 pounds is applied.

4.3 Dielectric withstanding voltage. The test voltage shall be 10,000 volts root mean square, applied at a rate of 500 volts per second, until the rated test voltage is reached.

5. PREPARATION FOR DELIVERY

5.1 Preparation for delivery shall be in accordance with Specification MIL-A-27434.

6. NOTES

6.1 Notes. In addition to the notes specified herein, the notes specified in Specification MIL-A-27434 are applicable to this specification.

6.2 This specification covers the design of type UG-586B 'U' connector adapter which was previously covered by Bureau of Ships Drawing REB49164.

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